

Handwritten: General File

Handwritten: ORIGINAL (Red)

Handwritten: VP 1046

May 18, 1956.

Mr. Chas. W. Elze,
The Southland Company,
Yazoo City, Mississippi.

Dear Mr. Elze:

The coke we have contracted to purchase from the American Oil Company for use as a boiler fuel in our new Yorktown Power Station, is to be produced by the delayed coking process using Venezuelan and Domestic crude oil. That produced from Venezuelan crude is expected to have approximately the following typical analyses:

Moisture, Wt. %	6
Moisture Free Analytical Basis	
Volatil. Matter, Wt. %	10
Ash, Wt. %	0.7
Sulphur, Wt. %	4.5
Vanadium, Wt. %	0.2
Sodium, Wt. %	.02
Heating Value, BTU/lb.	15,000
Grindability, Hardgrove Index	60

The sulphur content is expected to range from 1.0 to 5.5%, depending on the type of crude being processed. The price to be paid for the coke is subject to adjustment if the sulphur content exceeds 5.5%. The sulphur specified was a matter of negotiation, and is the minimum which the refinery expected to be able to meet when using certain crude.

The quantity of coke to be produced is expected to amount to about 50% of our fuel requirements, and we plan to blend the coke with equal amounts of coal with sulphur content around 1.0 to 1.5% before pulverising and firing, and consequently, the fuel as fired should have a sulphur content in the range of 3%. Nevertheless, we would expect that this amount would tend to accelerate corrosion and result in increased maintenance costs in a conventional steam generator, particularly in the presence of vanadium, and these factors have been taken into consideration in the design of the steam generator for this station.

AR 100009

ORIGINAL
(Red)

Mr. Chas. W. Elze

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In this area, oil has not been competitive with coal as a boiler fuel, and consequently its use in any of our three major stations that are equipped to burn heavy fuel oil has been very limited. Purchases are made in accordance with A. E. T. M. specifications for No. 6 fuel oil, usually at posted Norfolk tanker prices.

Very truly yours,
ORIGINAL SIGNED BY
L. E. DAVIS

L. E. Davis,
Director of Purchases.

JM/rbc

AR100010

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CENTRAL FILING DEPARTMENT

CLASS. NO. 100-1071

NO. 100-1071-1071

DATE: 10-10-1971

FROM: 100-1071-1071

SUBJECT: 100-1071-1071

RE: 100-1071-1071

DATE: 10-10-1971

FROM: 100-1071-1071

SUBJECT: 100-1071-1071

RE: 100-1071-1071

Mr. A. J. Sutherland, Jr.,
Asst. General Purchasing Agent,
Reynolds Metals Company,
Reynolds Metals Building,
Richmond 18, Virginia.

Dear Mr. Sutherland:

We wish to advise that the factory of the American Cyanamid
Yorktown is now in operation, and that we are receiving deliveries of delayed
cokes from them.

A sample of this coke was recently analyzed by our laboratory, and also
by Frechling and Robertson, Inc., Analytical Chemists. The analysis of the coke
basis is shown below:

Volatile Matter, %	13.46	13.46
Fixed Carbon, %	85.59	85.59
Ash, %	0.95	0.95
Sulfur, %	1.17	1.17
BTU/lb.	15,411	15,370
Grindability, Hargrave	91	
Ash Fusion, °F	2775 plus	

The process has been altered to the extent that the temperature of
the coking stills has been elevated to decrease the volatile matter content.
This action should also increase the fixed carbon content. A sample of the
coke which was produced by the altered process is being held in storage. The
results of the analysis will be made available to you as it is completed. We
shall be pleased to have our Southern Iron Works personnel, write you with
a sample of this coke.

A number of firms have placed orders for coke from the American Cyanamid
Yorktown, and we are naturally desirous of supplying our clients
decisions relative to the results of the analysis of the coke.

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